

**INHIBITION OF ANGIOGENESIS BY HIGH MOLECULAR
WEIGHT KININOGEN DOMAIN 3 PEPTIDE ANALOGS**

Abstract of the Disclosure

Peptide analogs the high molecular weight kininogen domain 3 are 5 potent inhibitors of angiogenesis. The peptides have the formula (a) X_1 -Asn-Asn-Ala-Thr-Phe-Tyr-Phe-Lys- X_2 , (b) X_3 -Cys-Val-Gly-Cys- X_4 , (c) X_5 -Leu-Asp- X_7 -Asn-Ala-Glu-Val-Tyr- X_6 , or (d) Tyr-Phe-Ile-Asp-Phe-Val-Ala-Arg-Glu-Thr-Thr- X_7 -Ser-Lys-Glu-Ser

10 wherein:

X_1 , X_2 , X_3 , X_4 , X_5 , and X_6 are from zero to twelve amino acids, independently the same or different, more preferably from zero to six amino acids, and;

X_7 is Ala or Cys.

15 The peptides may also comprise biologically active fragments of high molecular weight kininogen domain 3. Methods of inhibiting endothelial cell proliferation and angiogenesis are provided.